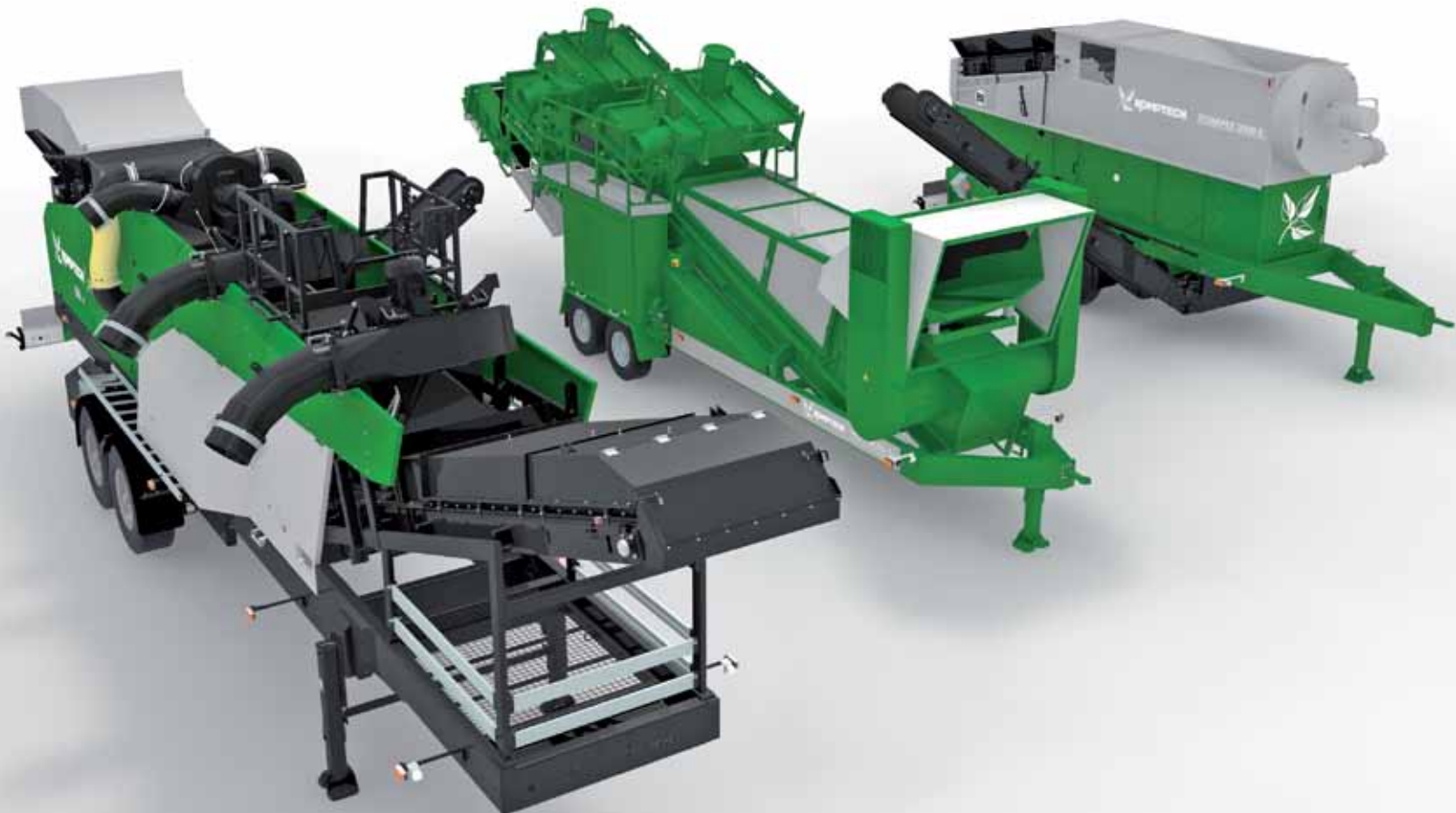




KOMPTECH
AMERICAS

SEPARATION

HURRIFEX HURRIKAN STONEFEX





HIGHLIGHTS



- » Combined unit with savings in space, materials and transportation effort compared to two separate machines
- » Wide range of uses with simple operation and high availability
- » Separation efficiency up to 95 percent at throughputs of 80 yd³/h / 60 m³/h
- » Low energy costs due to electrical drive of all components

HURRIFEX

STONE AND LIGHT MATERIAL SEPARATOR

The Hurrifex combines a stone separator and windsifter in a single machine. This makes it possible to clean compost and biomass fractions of stones and light materials - primarily plastic film - in one pass. Easily adjustable separation parameters give the Hurrifex a wide range of applications, and a separation efficiency of up to 95 percent.

All components are electrically powered, from grid power or with the on-board diesel generator. Large doors provide full access to all maintenance positions.

HURRIFEX

| | |
|--|--|
| Drive | |
| Diesel generator (kW / HP): | 48 / 64.3 |
| Diesel generator (option kVA / HP): | 60 / 80.4 |
| Material feeding - Feeding conveyor | |
| Filling width: | 3'11" / 1200 mm |
| Filling height: | 9'2" / 2800 mm |
| Drive (kW): | 3.0 |
| Discharge - stone fraction | |
| Design: | Corrugated edge belt |
| Discharge height: | 8' / 2500 mm (12'2" / 3700 mm option) |
| Discharge - cleaned fraction | |
| Design: | Profiled belt |
| Discharge height: | King Pin 12' / 3650 mm |
| Dimensions | |
| Transport dimensions L x W x H: | King Pin 45'7" x 8'4" x 13'1" / 12000 x 2550 x 4000 mm |
| Working dimensions L x W x H: | King Pin 45'7" x 18' x 13'5" / 13900 x 5500 x 4100 mm |
| Weight (depending on equipment): | ~ 15.4 t.sh / ~ 14,0 t |
| Throughput (dependent on material) | |
| Throughput performance: | up to 80 yd ³ /h / 60 m ³ /h |
| Options | |

Enclosure feeding conveyor, belt extension, adjustable conveyor speed, discharge belt electro-hydraulically foldable, diesel generator, Cleanfix-fan, central lubrication, frequency converter for suction fan, remote control etc.

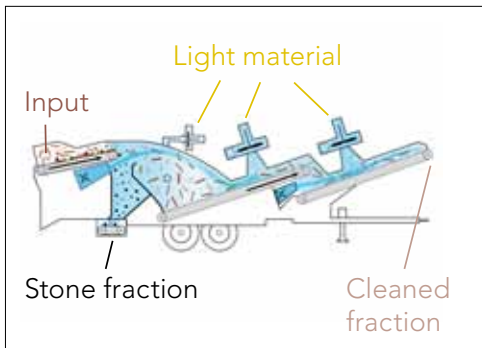


1 Feeding conveyor with adjustable speed

2 Separation chamber with pressure fan and suction fan

3 Corrugated belt conveyor for discharge of stone fraction

4 Suction fan, hinged for maintenance



Physics makes it possible

Differences in density and air resistance coefficient are the basis for separation of stones and inert items. Turning and air-flow-through the material are decisive factors for efficient removal of light items by suction.



Saving with hybrid technology

The power for the electric drives can come either from grid electric power or the optional built-in diesel generator. The suction and conveyor fans are optimized and have a low power requirement.



Reliable discharge

Stone fraction discharge is by a conveyor with corrugated sidewalls, light items are moved into two containers by a flexible duct. The flow of the material to be cleaned is straight, with no 90° turns. This greatly reduces the danger of blockages.





HIGHLIGHTS



- » High throughput with over 95% selectivity, by precise adjustment of settings to match material properties
- » Powerful S-version with enlarged suction section (Two suction blowers)
- » Maximum mobility and independent operation with on-board diesel power unit
- » Compatible with most commercially available mobile screening units

HURRIKAN WINDSIFTER

The mobile Hurrikan windsifters allow effective separation of plastic foils from over-sized screened particles. The patented "pressure-suction" process enables an effective separation of light fraction from screening residues. In the first step, material is separated by an air knife.

In the second step, the lightweight material is drawn off by a powerful suction blower. The suction performance is adjustable to material by variation of blower speed, blower distance and vent flaps. The quality of the recyclable oversized particles can be improved yet further by using magnet separation and a stone trap.

| | Hurrikan | Hurrikan S |
|--|--|---|
| Drive | | |
| Electrical power input (kW / HP): | 44 / 59 | 44 / 59 |
| Diesel generator (kVA / HP): | 60 / 80.4 | 60 / 80.4 |
| Material feeding | | |
| Filling width: | 5'3" / 1600 mm | 5'3" / 1600 mm |
| Filling height: | adjustable from 6'5" to 7'5" / 1950 to 2250 mm | adjustable from 6'5" to 7'5" / 1950 to 2250 mm |
| Blower power | | |
| Pressure blower (kW): | 7.5 | 7.5 |
| Suction and feed blower (kW): | 15 | 2 x 15 |
| Material discharge | | |
| Max. discharge height: | 9'6" / 2900 mm | 8'6" / 2600 mm |
| Dimensions | | |
| Transport dimensions L x W x H: | 27'3" x 8'4" x 13'1" / 8300 x 2550 x 4000 mm | 36'1" x 8'4" x 13'1" / 11000 x 2550 x 4000 mm |
| Working dimensions L x W x H: | 26'8" x 9'10" x 13'5" 8130 x 3000 x 4100 mm | 36'1" x 9'10" x 13' 1" 11000 x 3000 x 4000 mm |
| Weight: | 7.0 t.sh / 6.5 mt | 11.0 t.sh / 10.0 mt |
| Throughput (dependent on material) | | |
| Throughput performance: | to 75 yd ³ /h / to 57 m ³ /h | to 100 yd ³ /h / to 76 m ³ /h |
| Options | | |
| Magnet drum, separation belt for rolling fraction, diesel generator, frequency controller for suction blower, intake channels, vibrating feeder enclosure etc. | | |



01
Vibrating feeder
with enclosure

02
Air Knife

03
Suction blowers

04
Diesel generator

05
Rolling fraction
separator



Separation



Adjustment

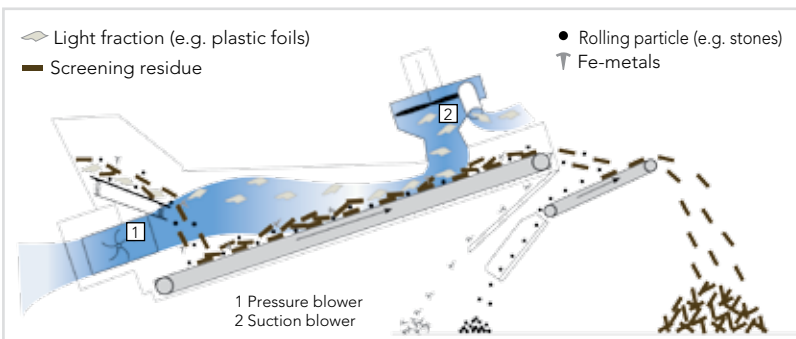


Options

The patented pressure-suction process ensures extremely effective separation of the lightweight fraction from the screen overflow. In the first step, material is separated by an air knife. In the second step, the lightweight material is drawn off by a powerful suction blower.

The wide chute enables a width up to 47" / 1.2 m and feed height of 6'5" to 7'5" / 1.95 to 2.25 m for the screener conveyor belt. The suction performance is adjustable for the material by changing the blower speed, blower distance and vent flaps.

The optional magnetic drum and rolling fraction separator make the Hurrikan a real clean-up machine. On the tiltable conveyor belt, round, heavy objects (mainly stones) roll downwards and are diverted via a chute.





HIGHLIGHTS

- » Dependable removal of up to 95 percent of stones and inert items (depending on input material)
- » Throughput up to 130 yd³/h / 100 m³/h with configuration for input particle size of 3/8" ... 1" – 6" / 10...20–150 mm
- » Wide range of application due to simple modification of separation limits
- » Low energy costs due to electrical drive of all components
- » Compatible with almost all mobile screening machines

STONEFEX STONE SEPARATOR

The Stonefex 3000 stone separator reliably and very effectively removes stones and inert items from biomass fuels. The input material is the usable biofuel fraction from a screener, for example woody green cuttings, screen residue from compost, or forestry chips.

A patented system of pressure and suction blowers generates exactly the right air flow in

the separation chamber to remove stones and heavy objects from the wood. Fractions that were previously difficult to use due to their high amount of stones can now be processed into fuel. Biomass processors profit from better customer demand for their fuels and higher sale prices.

STONEFEX 3000

| | |
|---|--|
| Drive | |
| Electrical power input (kW / HP): | 26 / 34.8 |
| Diesel generator (kVA / HP): | 30 / 40.2 |
| Material feeding - Intake conveyor | |
| Filling width: | 3'11" / 1200 mm |
| Filling height: | 10'4" / 3150 mm |
| Drive (kW): | 3.0 |
| Discharge - Stone fraction | |
| Design: | Corrugated edge belt |
| Discharge height: | 8'2" (Option 12'2") / 2500 mm (Option 3700 mm) |
| Discharge - Wood fraction | |
| Design: | Corrugated edge belt |
| Discharge height: | 8'2" (Option 12'2") / 2500 mm (Option 3700 mm) |
| Dimensions | |
| Transport dimensions L x W x H: | 27'3" x 8'4" x 13'1" / 8300 x 2550 x 4000 mm |
| Working dimensions L x W x H: | 27'3" x 24'7" x 12'2" / 8300 x 7500 x 3700 mm |
| Weight (dependent on equipment): | 11 t.sh / ~ 10.0 mt |
| Throughput (dependent on material) | |
| Throughput performance: | 130 yd ³ /h / up to 100 m ³ /h |
| Options | |

Conveyor extension, adjustable belt speed, foldable electro-hydraulic discharge belts, diesel generator, Cleanfix fan, central lubrication, frequency converter for suction blower, remote control, increased sidebars for intake conveyor and more



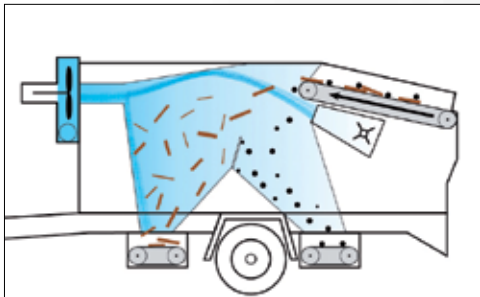
1 Intake conveyor with adjustable speed

2 Pressure blower with frequency control

3 Discharge conveyor for stone fraction

4 Suction blower with discharge pipe for fibers

5 Discharge conveyor for usable fraction



Wood fraction Stone fraction

Efficient separation system



Reliable functioning and simple maintenance



Mobile and economical

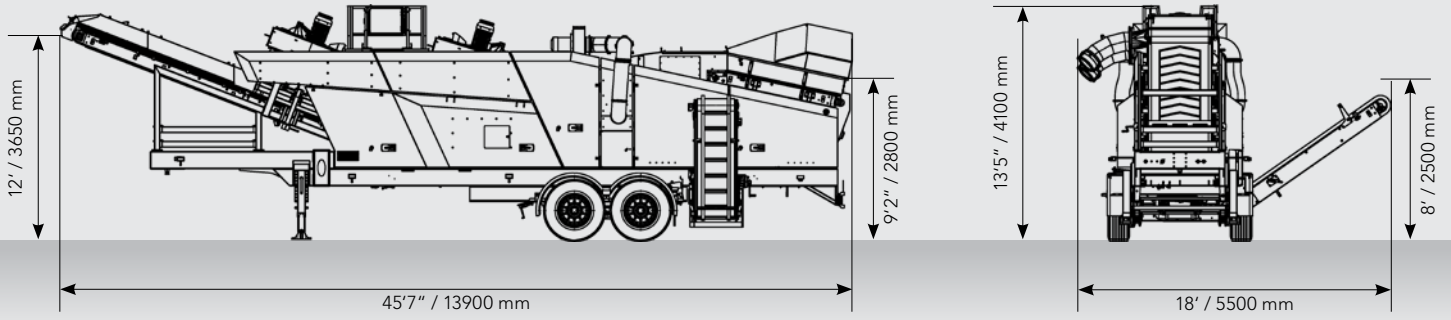
The input material is loaded onto the intake conveyor. In the expansion chamber, a system of pressure and suction blowers separates the material into a stone fraction and a cleaned usable fraction, which conveyors take out to opposite sides. Fibrous materials are collected in the container downstream of the suction blower.

Thanks to easy adjustment of the intake conveyor speed, blower speed and separating wedge, the Stonefex keeps working efficiently even with variable feedstocks. Large access panels to the separation chamber, the motor compartment and the swivelling suction blower make for simple and convenient maintenance.

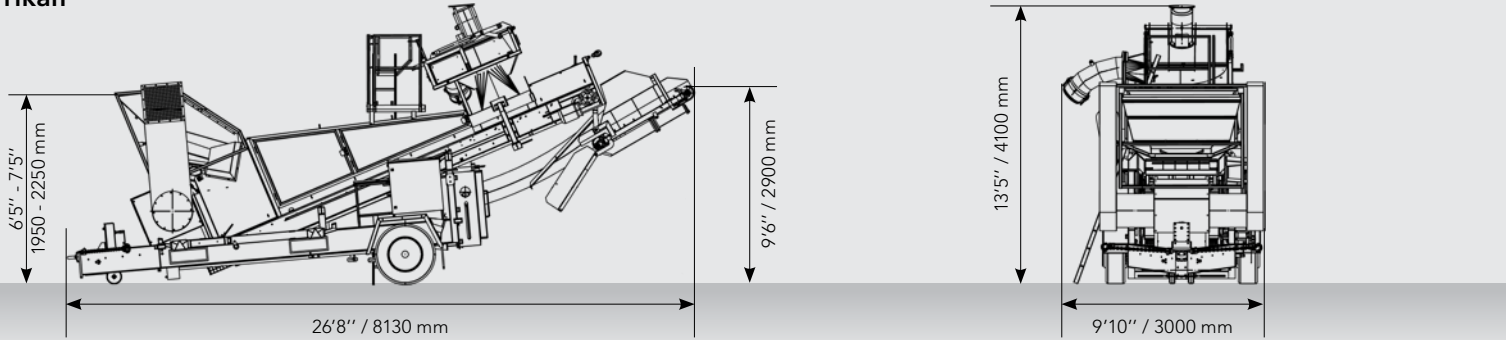
The single-axle trailer configuration makes the machine easy to maneuver, so transportation to the site is no problem. The standard version uses grid electrical power. As an option, a diesel generator is available. The resulting hybrid drive system ensures low energy and maintenance costs.



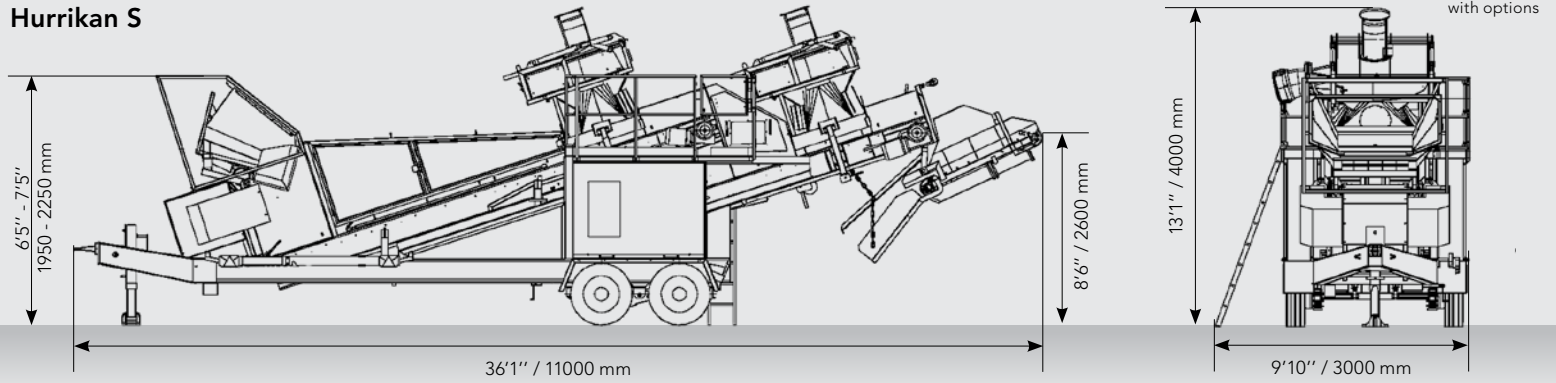
Hurrifex



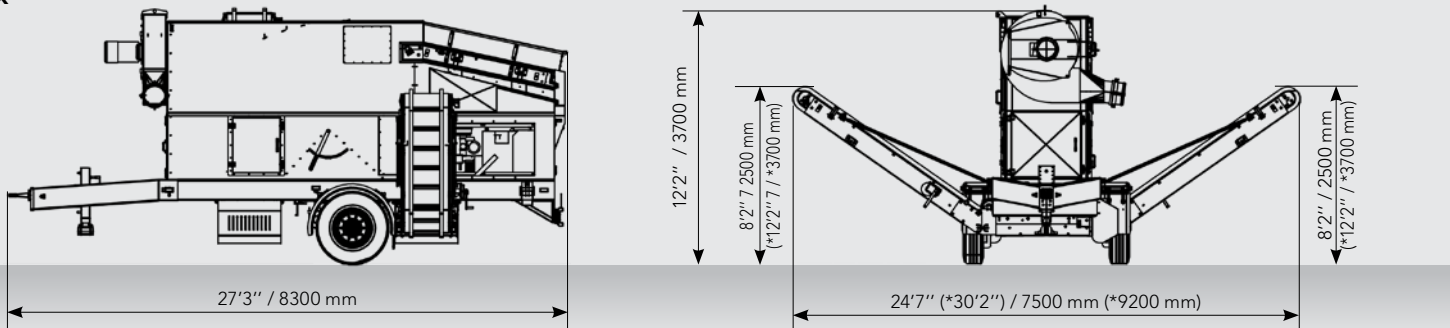
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Hurrikan S



Stonefex



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